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☐	L20	establish$4 adj3 service and (application programming interface or api) and mobile	609
☐	L19	L18 and detect$4 same (new adj3 address$2)	2
☐	L18	establishment adj3 service and (application programming interface or api) and mobile	54
☐	L17	establshisment adj3 service and (application programming interface or api) and mobile	0
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☐	L15	L12 and 455/2$$.ccls.	0
☐	L14	L12 and (application programming interface or api) and host	17
	L13	L12 and (application programming interface or api) and host and session	0

☐			
☐	L12	detect$4 same (new adj3 address$2) same resett$5	60
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☐	L10	(mobil$3 adj$4 service) and transport adj2 protocol same api	0
☐	L9	(mobility adj service) and transport adj2 protocol same api	1
☐	L8	(mobility adj service) and transport adj2 protocol same api	1
☐	L7	L4 and transport adj2 protocol same api	1
☐	L6	L4 and transport adj2 protocol	51
☐	L5	L4 and transmort adj2 protocol	0
☐	L4	mobility service	307
☐	L3	reset$3 and L2	0
☐	L2	api and L1	1
☐	L1	5825759.pn.	1

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☐	L22	(new adj3 address$2) same resett$5 same call$4	48
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☐	L20	establish$4 adj3 service and (application programming interface or api) and mobile	609
☐	L19	L18 and detect$4 same (new adj3 address$2)	2
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☐	L17	establshisment adj3 service and (application programming interface or api) and mobile	0
☐	L16	L12 and (application programming interface or api) and mobile	0
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☐	L14	L12 and (application programming interface or api) and host	17
☐	L13	L12 and (application programming interface or api) and host and session	0
☐	L12	detect$4 same (new adj3 address$2) same resett$5	60
☐	L11	(mobil4$ adj$4 service) and transport adj5 protocol same api	0
	L10	(mobil$3 adj$4 service) and transport adj2 protocol same api	0

☐			
☐	L9	(mobility adj service) and transport adj2 protocol same api	1
☐	L8	(mobility adj service) and transport adj2 protocol same api	1
☐	L7	L4 and transport adj2 protocol same api	1
☐	L6	L4 and transport adj2 protocol	51
☐	L5	L4 and transmort adj2 protocol	0
☐	L4	mobility service	307
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☐	L2	api and L1	1
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1 Mobile computing and applications (MCA): Object-oriented middleware for location-aware systems
Riku Järvensivu, Risto Pitkänen, Tommi Mikkonen
March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**
Publisher: ACM Press
Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references

Location-based systems are often aiming at the separation of the concept of location to a particular system, or, alternatively, treat location as yet another issue that should be fit into a larger prescribed application framework. This may lead to increasingly complex system architectures, when application logic uses location only as a facility. As a solution that gathers the best sides of both approaches, we propose an approach where object-oriented middleware is used for handling location-base ...

Keywords: location-based services, location-based systems, object-oriented middleware, software architecture

2 Using PARLAY APIs over a SIP system in a distributed service platform for carrier grade multimedia services
Rudolf Pailer, Johannes Stadler, Igor Miladinovic
July 2003 **Wireless Networks**, Volume 9 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, index terms

The implementation of new mobile communication technologies developed in the third generation partnership project (3GPP) will allow to access the Internet not only from a PC but also via mobile phones, palmtops and other devices. New applications will emerge, combining several basic services like voice telephony, e-mail, voice over IP, mobility or web-browsing, and thus wiping out the borders between the fixed telephone network, mobile radio and the Internet. Offering those value-added services ...

Keywords: SIP-Parlay mapping, caller preferences, carrier grade services, network-independent services, service platform

3 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: pdf(233.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

4 Composable ad hoc location-based services for heterogeneous mobile clients
Todd D. Hodes, Randy H. Katz
October 1999 **Wireless Networks**, Volume 5 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(403.18 KB) Additional Information: full citation, references, citings, index terms

5 Process migration
Dejan S. Milojičić, Fred Douglis, Yves Paindaveine, Richard Wheeler, Songnian Zhou
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
Publisher: ACM Press

Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

6 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Publisher: IBM Press
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

7 IP micro-mobility protocols

Andrew T. Campbell, Javier Gomez-Castellanos
October 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 4
Publisher: ACM Press
Full text available: pdf(1.12 MB) Additional Information: full citation, abstract, citings, index terms

The IETF Mobile IP Working Group is discussing a number of enhancements to the base protocol to reduce the latency, packet loss and signaling overhead experienced during handoff. In this article, we discuss a number of "micro-mobility protocols" that extend Mobile IP with fast handoff and paging capabilities. The aim of this article is not to provide an exhaustive survey of these protocols. Rather, we discuss the motivation behind micro-mobility, present common characteristics that a number of p ...

8 Ticket based service access for the mobile user

Bhrat Patel, Jon Crowcroft
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(1.52 MB) Additional Information: full citation, references, citings, index terms

9 Location-aware mobile applications based on directory services

Henning Maass
August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(421.47 KB) Additional Information: full citation, abstract, references, citings, index terms

Location-aware applications are becoming increasingly attractive due to the widespread dissemination of wireless networks and the emergence of small and cheap locating technologies. We developed a location information server that simplifies and speeds up the development of these applications by offering a set of generic location retrieval and notification services to the application. The data model and the access protocols of these services are based on the X.500 directory service and the l ...

10 Location-aware mobile applications based on directory services

Henning Maaß
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(1.59 MB) Additional Information: full citation, references, citings, index terms

Keywords: LDAP, X.500, adaptive applications, directory services, distributed systems, locating systems, location-aware applications, middleware, mobile computing, software architectures, wireless multimedia networks

11 Mobile services: Slingshot: deploying stateful services in wireless hotspots

Ya-Yunn Su, Jason Flinn
June 2005 **Proceedings of the 3rd international conference on Mobile systems, applications, and services MobiSys '05**
Publisher: ACM Press

Full text available: pdf(304.65 KB) Additional Information: full citation, abstract, references

Given a sufficiently good network connection, even a handheld computer can run extremely resource-intensive applications by executing the demanding portions on a remote server. At first glance, the increasingly ubiquitous deployment of wireless hotspots seems to offer the connectivity needed for remote execution. However, we show that the backhaul connection from the hotspot to the Internet can be a prohibitive bottleneck for interactive applications. To eliminate this bottleneck, we propose a n ...

12 A mobile agent infrastructure for the mobility support

Paolo Bellavista, Antonio Corradi, Cesare Stefanelli
March 2000 **Proceedings of the 2000 ACM symposium on Applied computing - Volume 2**
Publisher: ACM Press
Full text available: pdf(826.83 KB) Additional Information: full citation, references, index terms

Keywords: QoS adaptation, mobile agents, mobile and nomadic computing, mobile tracing, resource discovery

13 A public-key based secure mobile IP

John Zao, Joshua Gahm, Gregory Troxel, Matthew Condell, Pam Helinek, Nina Yuan, Isidro Castineyra, Stephen Kent
October 1999 **Wireless Networks**, Volume 5 Issue 5
Publisher: Kluwer Academic Publishers
Full text available: pdf(255.65 KB) Additional Information: full citation, references, citings, index terms

14 Supporting service discovery, querying and interaction in ubiquitous computing environments

Adrian Friday, Nigel Davies, Nat Wallbank, Elaine Catterall, Stephen Pink
November 2004 **Wireless Networks**, Volume 10 Issue 6
Publisher: Kluwer Academic Publishers
Full text available: pdf(209.21 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we contend that ubiquitous computing environments will be highly heterogeneous, service rich domains. Moreover, future applications will consequently be required to interact with multiple, specialised service location and interaction protocols simultaneously. We argue that existing service discovery techniques do not provide sufficient support to address the challenges of building applications targeted to these emerging environments.

This paper makes a number of contribu ...

Keywords: distributed systems, middleware, mobile and ubiquitous computing, service discovery, service interaction

15 Mobile networking in the Internet

Charles E. Perkins
December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: Additional Information: full citation, abstract, references, citings, index

pdf(166.90 KB) terms

Computers capable of attaching to the Internet from many places are likely to grow in popularity until they dominate the population of the Internet. Consequently, protocol research has shifted into high gear to develop appropriate network protocols for supporting mobility. This introductory article attempts to outline some of the many promising and interesting research directions. The papers in this special issue indicate the diversity of viewpoints within the research community, and it is ...

16 A mobile virtual-distributed system architecture for supporting wireless mobile computing and communications

George Liu, Alexander Marlevi, Gerald Q. Maguire

December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**

Publisher: ACM Press

Full text available: pdf(876.34 KB) Additional Information: full citation, references, citings, index terms

17 iMobile EE: an enterprise mobile service platform

Yih-Farn Chen, Huale Huang, Rittwik Jana, Trevor Jim, Matti Hiltunen, Sam John, Serban Jora, Radhakrishnan Muthumanickam, Bin Wei

July 2003 **Wireless Networks**, Volume 9 Issue 4

Publisher: Kluwer Academic Publishers

Full text available: pdf(2.90 MB) Additional Information: full citation, abstract, references, index terms

iMobile[1] is an enterprise mobile service platform that allows resource-limited mobile devices to communicate with each other and to securely access corporate contents and services. The original iMobile architecture consists of devlets that provide protocol interfaces to different mobile devices and infolets that access and transcode information based on device profiles. iMobile Enterprise Edition (iMobile EE) is a redesign of the original iMobile architecture to address the security, ...

Keywords: content transcoding, middleware, mobile devices, mobile enterprise, mobile multimedia services

18 Exploiting path diversity in mobile systems: A mechanism for host mobility management supporting application awareness

Arjan Peddemors, Hans Zandbelt, Mortaza Bargh

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services MobiSys '04**

Publisher: ACM Press

Full text available: pdf(499.48 KB) Additional Information: full citation, abstract, references, index terms

Many approaches exist today that address the issues that arise when a mobile node changes its point(s) of attachment to the Internet. Mobile IP takes care of host mobility at the IP layer; others at the transport layer (Mobile SCTP) or at the application layer (SIP with re-invite). In practice, most of these approaches rely on functionality residing on the mobile host that scans, detects and activates the networks available through one or more network interfaces.The mechanism proposed in this pa ...

Keywords: application awareness, host mobility, mobility management

19 Supporting service discovery, querying and interaction in ubiquitous computing environments

Adrian Friday, Nigel Davies, Elaine Catterall
May 2001 **Proceedings of the 2nd ACM international workshop on Data engineering for wireless and mobile access**
Publisher: ACM Press

Full text available: pdf(60.62 KB) Additional Information: full citation, abstract, references, citings, index terms

Future computing environments will consist of a wide range of network based appliances, applications and services interconnected using both wired and wireless networks. In order to encourage the development of applications in such environments and remove the need for complex administration and configuration tasks, researchers have recently developed a range of service discovery and interaction platforms. Examples of such platforms include SLP, HAVi, UPnP and Jini. While these platforms share ...

Keywords: Mobile and ubiquitous computing, middleware, service discovery, service interaction

20 A method of data transfer control during handoffs in mobile-IP based multimedia networks

P. Venkataram, R. Rajavelsamy, S. Laxmaiah
April 2001 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 5 Issue 2
Publisher: ACM Press
Full text available: pdf(796.18 KB) Additional Information: full citation, abstract, references, citings

Applications that require untethered access, in real-time, to multimedia information sources are made possible by mobile multimedia networks. These include support for decision makers in the field, crisis management and response, law enforcement, etc. The multimedia applications demand constant and continuous flow of data from the integrated sources. So, the network should support continuous transfer of information to the mobile hosts. However, the handoffs initiated by the mobile hosts will not ...

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1 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Composable ad hoc location-based services for heterogeneous mobile clients

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(403.18 KB) Additional Information: full citation, references, citings, index terms

3 Database and location management schemes for mobile communications

Anna Hać, Bo Liu

December 1998 **IEEE/ACM Transactions on Networking (TON)**, Volume 6 Issue 6

Publisher: IEEE Press

Full text available: pdf(264.51 KB) Additional Information: full citation, references, index terms

Keywords: GSM, broadcast, cost, mobility management, partition, routing, switching

4 Dynamic network reconfiguration support for mobile computers

Jon Inouye, Jim Binkley, Jonathan Walpole

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Publisher: ACM Press
Full text available: pdf(1.60 MB) Additional Information: full citation, references, citings, index terms

5 Pen computing: a technology overview and a vision

André Meyer
July 1995 **ACM SIGCHI Bulletin**, Volume 27 Issue 3
Publisher: ACM Press
Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions.Starting with a short historic ...

6 Transport Layer Issues: Reliable network connections

Victor C. Zandy, Barton P. Miller
September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(272.01 KB) Additional Information: full citation, abstract, references, citings, index terms

We present two systems, reliable sockets (rocks) and reliable packets (racks), that provide transparent network connection mobility using only user- level mechanisms. Each system can detect a connection failure within seconds of its occurrence, preserve the endpoint of a failed connection in a suspended state for an arbitrary period of time, and automatically reconnect, even when one end of the connection changes IP address, with correct recovery of in-flight data. To allow rocks and racks to in ...

Keywords: network connection mobility

7 The design and implementation of an intentional naming system

William Adjie-Winoto, Elliot Schwartz, Hari Balakrishnan, Jeremy Lilley
December 1999 **ACM SIGOPS Operating Systems Review , Proceedings of the seventeenth ACM symposium on Operating systems principles SOSP '99**, Volume 33 Issue 5
Publisher: ACM Press
Full text available: pdf(1.77 MB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents the design and implementation of the Intentional Naming System (INS), a resource discovery and service location system for dynamic and mobile networks of devices and computers. Such environments require a naming system that is (i) expressive, to describe and make requests based on specific properties of services, (ii) responsive, to track changes due to mobility and performance, (iii) robust, to handle failures, and (iv) easily configurable. INS uses a simple language based o ...

8 On providing support for protocol adaptation in mobile wireless networks

Pradeep Sudame, B. R. Badrinath
January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(146.48 KB) Additional Information: full citation, references, citings, index terms

Keywords: adaptivity, mobility, protocols, wireless networks

9 Connection closures adding application-defined behaviour to network connections

S. Rooney
April 1997 **ACM SIGCOMM Computer Communication Review**, Volume 27 Issue 2
Publisher: ACM Press
Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, citings, index terms

New techniques in the implementation of out-of-band control in ATM networks are causing both industry and research laboratories to look again at the whole question of ATM signalling. These techniques devolve the control from the network devices into a higher level distributed processing environment, resulting in simpler network devices and more flexible control architectures.This paper takes this idea one stage further and suggests that at least in some cases, the only place in which control can ...

10 A survey of routing techniques for mobile communications networks

S. Ramanathan, Martha Steenstrup
October 1996 **Mobile Networks and Applications**, Volume 1 Issue 2
Publisher: Kluwer Academic Publishers
Full text available: pdf(276.88 KB) Additional Information: full citation, abstract, references, citings, index terms

Mobile wireless networks pose interesting challenges for routing system design. To produce feasible routes in a mobile wireless network, a routing system must be able to accommodate roving users, changing network topology, and fluctuat- ing link quality. We discuss the impact of node mobility and wireless communication on routing system design, and we survey the set of techniques employed in or proposed for routing in mobile wireless networks.

11 LIME: A coordination model and middleware supporting mobility of hosts and agents

Amy L. Murphy, Gian Pietro Picco, Gruia-Catalin Roman
July 2006 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 15 Issue 3
Publisher: ACM Press
Full text available: pdf(1.25 MB) Additional Information: full citation, abstract, references, index terms

LIME (Linda in a mobile environment) is a model and middleware supporting the development of applications that exhibit the physical mobility of hosts, logical mobility of agents, or both. LIME adopts a coordination perspective inspired by work on the Linda model. The context for computation, represented in Linda by a globally accessible persistent tuple space, is refined in LIME to transient sharing of the identically named tuple spaces carried by individual mobile units. Tuple spaces are also e ...

Keywords: Mobile computing, middleware, tuple spaces

12 A new multicasting-based architecture for Internet host mobility

Jayanth Mysore, Vaduvur Bharghavan
September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(2.08 MB) Additional Information: full citation, references, citings, index terms

13 Modeling mobile IP in mobile UNITY

Peter J. McCann, Gruia-Catalin Roman
April 1999 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 8 Issue 2
Publisher: ACM Press

Full text available: pdf(344.70 KB) Additional Information: full citation, abstract, references, citings, index terms, review

With recent advances in wireless communication technology, mobile computing is an increasingly important area of research. A mobile system is one where independently executing components may migrate through some space during the course of the computation, and where the pattern of connectivity among the components changes as they move in and out of proximity. Mobile UNITY is a notation and proof logic for specifying and reasoning about mobile systems. In this article it is argued that Mobile ...

Keywords: formal methods, mobile UNITY, mobile computing, shared variables, synchronization, transient interactions, weak consistency

14 Papers: Cellular IP: a new approach to Internet host mobility

András G. Valkó
January 1999 **ACM SIGCOMM Computer Communication Review**, Volume 29 Issue 1
Publisher: ACM Press

Full text available: pdf(1.35 MB) Additional Information: full citation, abstract, references, citings

This paper describes a new approach to Internet host mobility. We argue that by separating local and wide area mobility, the performance of existing mobile host protocols (e.g. Mobile IP) can be significantly improved. We propose Cellular IP, a new lightweight and robust protocol that is optimized to support local mobility but efficiently interworks with Mobile IP to provide wide area mobility support. Cellular IP shows great benefit in comparison to existing host mobility proposals for environm ...

15 P-MIP: paging extensions for mobile IP

Xiaowei Zhang, Javier Gomez Castellanos, Andrew T. Campbell
April 2002 **Mobile Networks and Applications**, Volume 7 Issue 2
Publisher: Kluwer Academic Publishers

Full text available: pdf(272.68 KB) Additional Information: full citation, abstract, references, citings, index terms

As the number of Mobile IP users grows, so will the signalling overhead associated with Internet mobility management in the core IP network. This presents a significant challenge to Mobile IP as the number of mobile devices scale-up. In cellular networks, registration and paging techniques are used to minimize the signalling overhead and optimize the mobility management performance. Currently, Mobile IP supports registration but not paging. In this paper, we argue that Mobile IP should be extend ...

Keywords: Mobile IP, mobility management, paging

16 Client-server computing in mobile environments

Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2
Publisher: ACM Press

Full text available: pdf(233.31 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

17 Using PARLAY APIs over a SIP system in a distributed service platform for carrier grade multimedia services

Rudolf Pailer, Johannes Stadler, Igor Miladinovic
July 2003 **Wireless Networks**, Volume 9 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, index terms

The implementation of new mobile communication technologies developed in the third generation partnership project (3GPP) will allow to access the Internet not only from a PC but also via mobile phones, palmtops and other devices. New applications will emerge, combining several basic services like voice telephony, e-mail, voice over IP, mobility or web-browsing, and thus wiping out the borders between the fixed telephone network, mobile radio and the Internet. Offering those value-added services ...

Keywords: SIP-Parlay mapping, caller preferences, carrier grade services, network-independent services, service platform

18 Process migration

Dejan S. Milojičić, Fred Douglis, Yves Paindaveine, Richard Wheeler, Songnian Zhou
September 2000 **ACM Computing Surveys (CSUR)**, Volume 32 Issue 3
Publisher: ACM Press
Full text available: pdf(1.24 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Process migration is the act of transferring a process between two machines. It enables dynamic load distribution, fault resilience, eased system administration, and data access locality. Despite these goals and ongoing research efforts, migration has not achieved widespread use. With the increasing deployment of distributed systems in general, and distributed operating systems in particular, process migration is again receiving more attention in both research and product development. As hi ...

Keywords: distributed operating systems, distributed systems, load distribution, process migration

19 A mobile virtual-distributed system architecture for supporting wireless mobile computing and communications

George Liu, Alexander Marlevi, Gerald Q. Maguire
December 1995 **Proceedings of the 1st annual international conference on Mobile computing and networking**
Publisher: ACM Press
Full text available: pdf(876.34 KB) Additional Information: full citation, references, citings, index terms

20 Session II: Paging and performance in cellular networks: P-MIP: paging in mobile IP

Xiaowei Zhang, Javier Gomez Castellanos, Andrew T. Campbell

July 2001 **Proceedings of the 4th ACM international workshop on Wireless mobile multimedia**

Publisher: ACM Press

Full text available: pdf(220.22 KB) Additional Information: full citation, abstract, references, citings, index terms

As the number of Mobile IP users grows, so will the signaling overhead associated with Internet mobility management in the core IP network. This presents a significant challenge to Mobile IP as the number of mobile devices scale-up. In cellular networks, registration and paging techniques are used to minimize the signaling overhead and optimize the mobility management performance. Currently, Mobile IP supports registration but not paging. In this paper, we argue that Mobile IP should be extended ...

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